03050109-180

(Clouds Creek/Lake Murray)

General Description

Watershed 03050109-180 is located in Saluda and Lexington Counties and consists primarily of ***Clouds Creek*** and its tributaries from its origin to ***Lake Murray***. The watershed occupies 71,420 acres of the Piedmont and Upper Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Appling-Herndon-Tatum-Lakeland-Helena series. The erodibility of the soil (K) averages 0.24 and the slope of the terrain averages 7%, with a range of 2-25%. Land use/land cover in the watershed includes: 65.0% forested land, 26.3% agricultural land, 4.3% forested wetland (swamp), 2.2% urban land, 1.0% barren land, 1.1% water, and 0.1% nonforested wetland (marsh).

The Clouds Creek watershed originates near the Town of Ridge Spring and drains into the Little Saluda River. Clouds Creek is joined by Peters Creek and Indian Creek before flowing through Asbill Pond. Downstream of the pond, Clouds Creek accepts the drainage of Jacobs Branch, Moores Creek (Dye Creek), Harris Branch, Warren Branch, Mack Branch, Flat Rock Branch, and Long Branch. West Creek originates near the Town of Batesburg, and accepts the drainage of Bates Branch, Gin Branch, and Lick Creek before entering Clouds Creek at the base of the watershed. Clapboard Branch and Beaverdam Creek enter Clouds Creek just as it drains into the Little Saluda River. There are a total of 140.0 stream miles and 881.1 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

Station #	Type	Class	Description
S-112	BIO	FW	MOORES CREEK AT U.S.178
S-255	S/W	FW	CLOUDS CREEK AT S-41-26, 4 MILES NW OF BATESBURG
S-324	INT	FW	CLOUDS CREEK AT US 378
S-113	W	FW	CLOUDS CREEK AT S-41-25

Clouds Creek **-** There are three SCDHEC monitoring sites along Clouds Creek. Aquatic life uses are not supported at the upstream site **(S-255)** due to dissolved oxygen concentration and pH excursions. There is a significant decreasing trend in pH. A significant decreasing trend in turbidity suggests improving conditions for this parameter. Prior to 2001, this was a secondary monitoring station and sampling was intentionally biased towards periods with potentially low dissolved oxygen concentrations. Recreational uses are fully supported, and a significant decreasing trend in fecal coliform bacteria suggests improving conditions for this parameter. At the midstream site ***(S-324)***, aquatic life uses are partially supported due to pH excursions. Recreational uses are fully supported. At the downstream site **(S-113)**, aquatic life and recreational uses are fully supported.

Moores Creek (S-112) **-** Aquatic life uses are fully supported based on macroinvertebrate community data.

Groundwater Quality

Well #	Class	Aquifer	Location
AMB-113	GB	PIEDMONT BEDROCK	AMICK POULTRY

NPDES Program

Active NPDES Facilities

RECEIVING STREAM *FACILITY NAME* *PERMITTED FLOW @ PIPE (MGD)*	*NPDES#* *TYPE* *COMMENT*
HARRIS BRANCH AMICKS PROCESSING, INC. PIPE #: 001, 0.A FLOW: 0.5 0	SC0025585 MINOR INDUSTRIAL
GIN BRANCH COLUMBIA FARMS HATCHERY FEED PIPE #: A10 FLOW: 0.50	SCG250064 MINOR INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Land Applications

LAND APPLICATION *FACILITY NAME*	*PERMIT #* *TYPE*
SLUDGE APPLICATION SITE CAROLINA BY-PRODUCTS/WARD DIV.	ND0076945 INDUSTRIAL

Growth Potential

There is a low potential for growth in this watershed, which contains the Towns of Batesburg-Leesville, Ridge Spring, and Monetta. The majority of the area still does not have water or sewer available.